



# BOILER/MECHANICAL ROOM GAS SAFETY CONTROL



INCORPORATING  
GAS DETECTION &  
PRESSURE PROVING,  
ENGINEERED TO  
DELIVER EXCEPTIONAL  
LEVELS OF SAFETY





# GAS SAFETY IN EVERY ENVIRONMENT

## Modern designs developed by experts in gas safety

Our fully qualified engineers and designers keep up to date with industry practices and developments, adhering to all health and safety legislation, as well as, building codes.

Our customers can feel assured that the solutions we are providing along with the technical backup are second to none.

American Gas Safety is a family run and operated business with excellent customer service and value for money at its core.



Full technical support available



Competitively priced



Complete after sales care



Easy Installation



Modern digital design



Express delivery available nationwide

Full product catalogue and operating and maintenance guides are available online at [AMERICANGASSAFETY.COM](http://AMERICANGASSAFETY.COM)

## Key feature icons

The benefits of each of our products are illustrated in an icon format throughout this brochure, aiding you to select the product and design features most suited for your requirements.

The icons are located at the bottom of each product description with accompanying detail for ease of reference and comparison of the solutions we have available.

If you have any questions about any products and their features please contact [info@americangassafety.com](mailto:info@americangassafety.com).



GAS ISOLATION



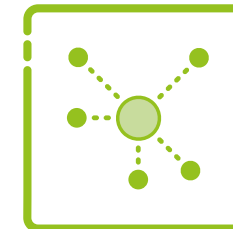
UP TO 8/16 EXTERNAL DETECTORS



UNIQUE GAS PRESSURE PROVING



ETHERNET/LAN CONNECTIVITY



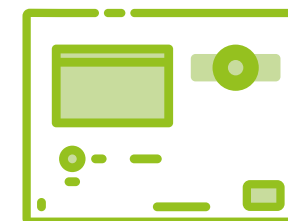
MODBUS COMPATIBILITY



FIRE ALARM INPUT & BAS/BMS OUTPUT



EMERGENCY SHUTDOWN



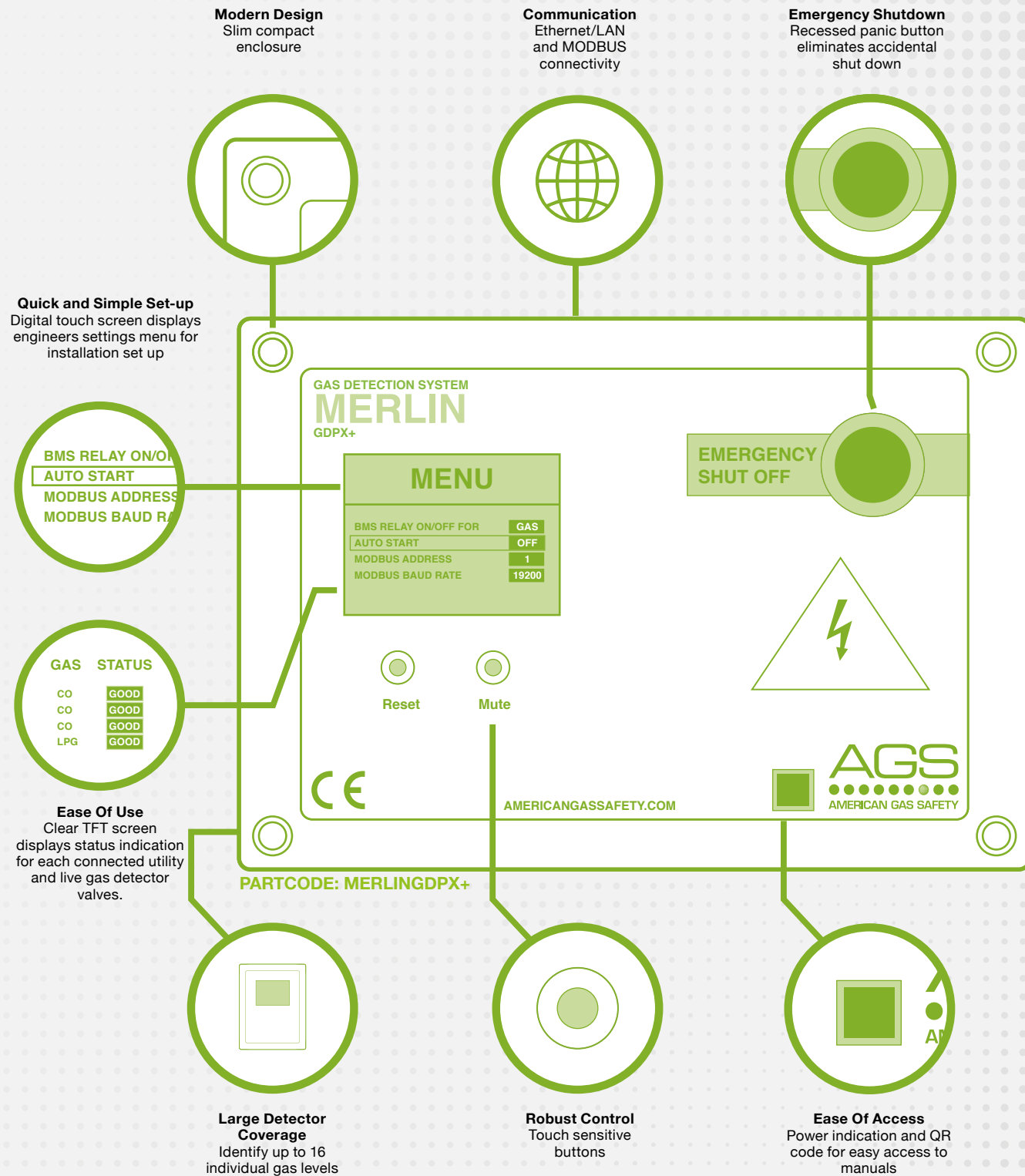
FIRE PANEL INTEGRATION



BAS INTEGRATION



UL APPROVED RANGE



## Add more than just ON/OFF control in your Boiler/Mechanical Room design

### Automatic Gas Shutdown Incorporating Gas Detection & Gas Pressure Proving



**UNIQUE PRESSURE PROVING TECHNOLOGY**

The Merlin GDPX+ features the unique gas pressure proving technology that provides safe start-up along with low pressure and over pressure safety.

- ✓ Incredibly easy to use & install
- ✓ Ethernet/LAN & MODBUS connectivity to signal live gas levels and system status.
- ✓ Industrial Grade Polycarbonate Material to withstand daily use

## Protecting your building and life

According to federal data, incidents related to natural gas pipelines are not uncommon, occurring nearly every other day, causing millions of dollars in property damage and several deaths each year.

American Gas Safety develop a complete line of high quality modern gas safety systems which are UL certified and designed to meet all the relevant NFPA, ICC codes and standards helping your design and building be code compliant .

[www.phmsa.dot.gov](http://www.phmsa.dot.gov)

PERSHING  
SQUARE

*Encore*  
BOSTON HARBOR

— AMERICA'S —  
TEST KITCHEN

## More than just manual shut off in a mechanical room

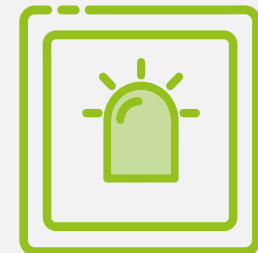
The AGS solutions are already protecting thousands of properties across the U.S.

Modern components compliment years of industry experience to provide a tidy solution to boiler/mechanical room safety. Multiple inputs available to adapt the operation of the controllers, including fire alarm shut down, BMS/BAS, modbus & Internet communications.

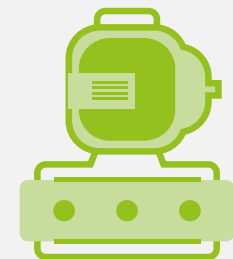
### DETECT



### ALARM



### ISOLATE



**...DON'T WAIT FOR SOMEONE TO REALIZE THERE IS A FAULT!**

## Choose the best solution for your application



### EMERGENCY SHUTDOWN

This is your basic CSD-1 Safety set up in a mechanical room to isolate gas or power to the boilers.



### EMERGENCY SHUTDOWN WITH GAS DETECTION

For rooms smaller than a 25 yard radius, add a Mini Merlin to the emergency panic button circuit to provide combustible gas & carbon monoxide monitoring

**Compact and affordable protection.**



## Complete space protection

### MERLIN GDP2X

**Add multiple remote sensors and additional inputs**

- ✓ Designed for use in large boiler rooms
- ✓ Single 120V output de-energizes in alarm
- ✓ Inputs for heat detectors, emergency panic buttons, fire alarms & external detectors
- ✓ Intuitive PCB speeds up install
- ✓ Covered by American Gas Safety LLC 3 year warranty



Gas Isolation



BAS Integration



UL Approved Range



Fire Panel Integration



Emergency Shutdown



### MERLIN GDPX+

**Add remote MODBUS & Ethernet communications**

- ✓ Designed for use in large boiler rooms
- ✓ Dual 120V output de-energizes in alarm
- ✓ Unique gas pressure proving - low & high pressure shut off
- ✓ Inputs for heat detectors, emergency panic buttons, fire alarms & external detectors
- ✓ Intuitive PCB speeds up install
- ✓ Covered by American Gas Safety LLC 3 year warranty



Gas Isolation



BAS Integration



UL Approved Range



Fire Panel Integration



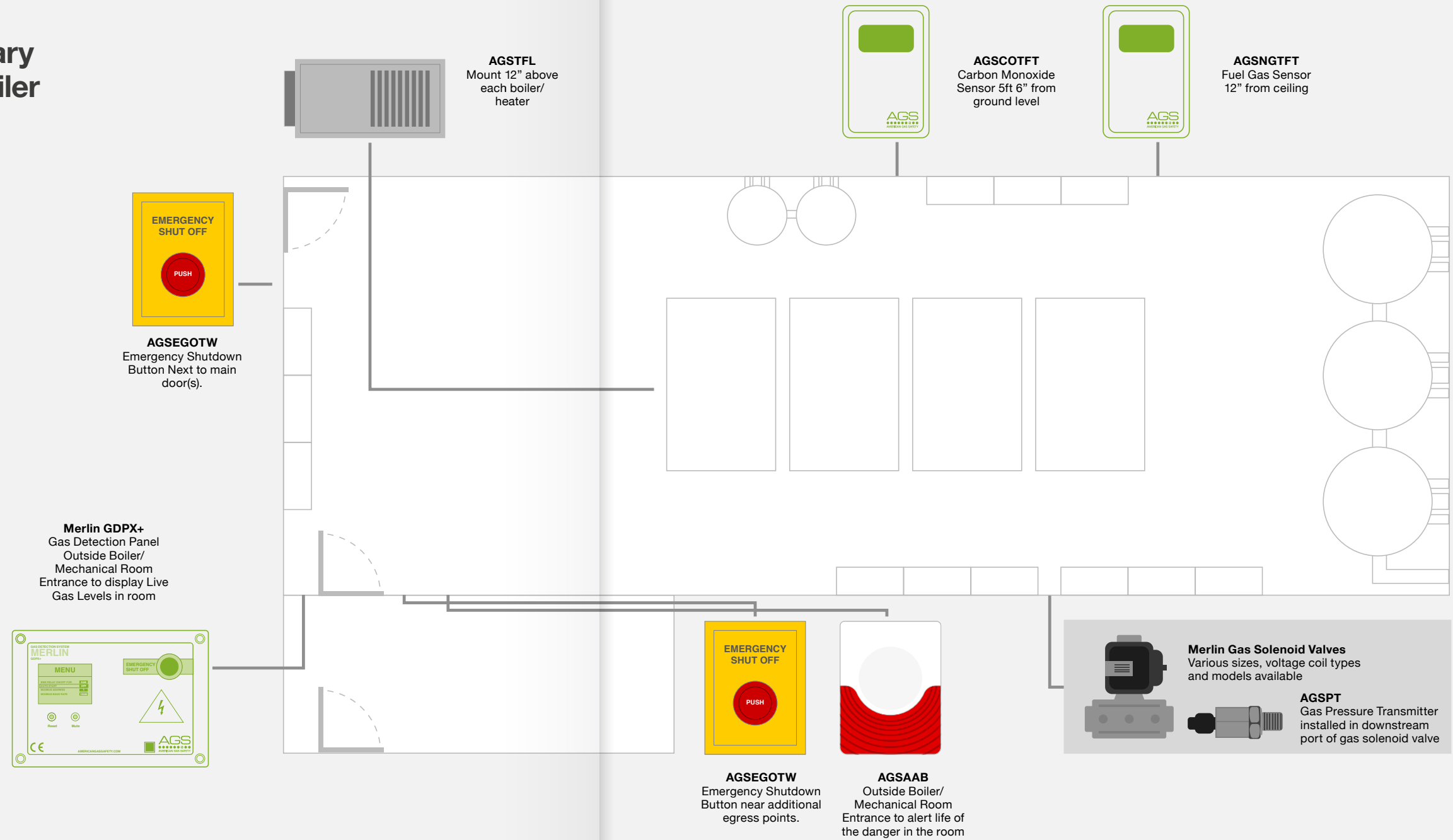
Emergency Shutdown



MODBUS Compatibility

## Take precautionary action in your boiler room

This diagram illustrates an example room layout for a boiler room.



## Take control of your utilities & ancillaries



### AGS GAS SOLENOID VALVES

- ✓ Sizes available from 3/8" through 3" NPT. Other sizes available upon request
- ✓ Normally closed valves offer safety shut off with fast-open, fast-close operation
- ✓ Rugged design and construction
- ✓ Die cast aluminum body
- ✓ Approvals: UL, AGA, CGA, ANSI Z21.21-CGA6.5, CAN/CGA-6.5-M89/CAN/CGA-3.9-M87

### AGS ELECTRICAL CONTACTORS

- ✓ Various models available
- ✓ Most commonly used to control boilers or receptacles
- ✓ Approvals: UL, GOST, CSA & CCC



### AGS AUDIBLE ALARM BEACON

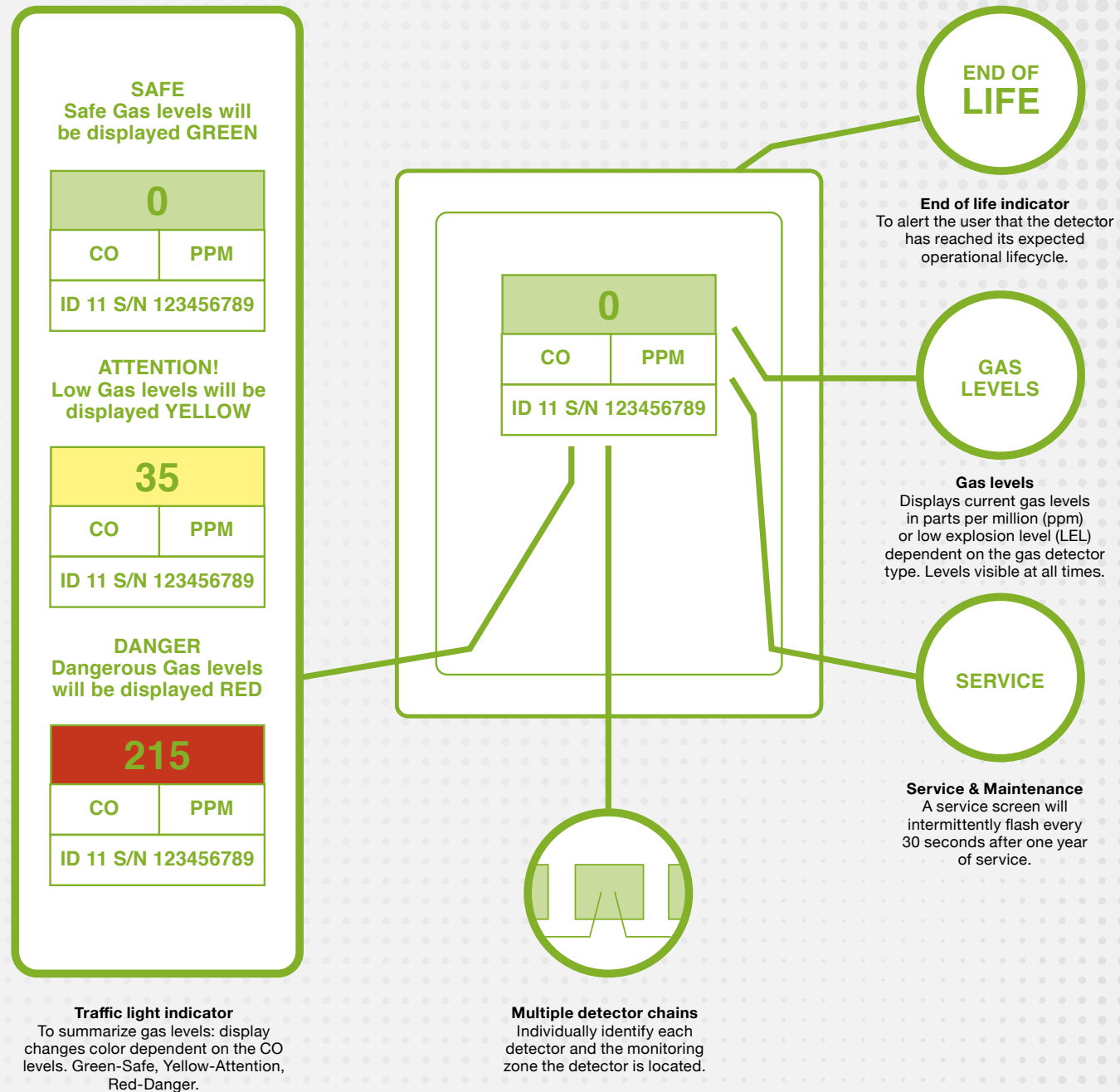
- ✓ 12-24V powered from Merlin controller
- ✓ Alarm/siren offers 32 selectable sounds and volume control
- ✓ 8 flash patterns
- ✓ Designed to meet the requirements of IP54



### AGS HEAT DETECTOR

- ✓ Cast Aluminum Housing
- ✓ Replaceable Thermal Fuse
- ✓ Mounted above the boiler(s)
- ✓ 162°F switching point





## Pre-calibrated and compact gas detectors

### Take precautionary action in your boiler / mechanical room project.

Every year, at least 430 people die in the U.S. from accidental CO poisoning. Approximately 50,000 people in the U.S. visit the emergency department each year due to accidental CO poisoning. Adding a CO detector to your design can help protect life from the silent killer Carbon Monoxide.

Installing a combustible gas detector protects life from potential gas explosion. Installing a carbon monoxide detector indicates a problem with a flue or exhaust fan(s).

Other detectors are available upon request for fuel gas or specialist gases.

- ✓ No calibration required - pre-calibrated in the factory
- ✓ Power supply 12-24v AC/DC from Merlin controller
- ✓ Various outputs to work with control panels



## Emergency panic buttons

Isolate gas or power to the boilers with a panic button that can be customized to stand out in your space.



**AGSEGOTW**  
Twist release

**AGSEGOKL**  
Key release

**AGSEGOKLA**  
Key release with audible alarm



**WE HAVE VARIOUS MODELS & COLORS AVAILABLE WITH CUSTOM TEXT OPTIONS**

## Mounting your equipment

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### WALL MOUNTING

Each utility controller by American Gas Safety have been designed to be wall mounted via four bolts located at each corner by a socket wrench provided.

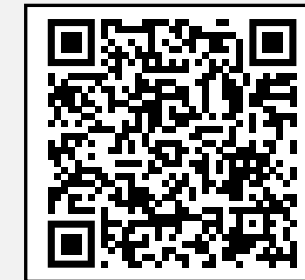
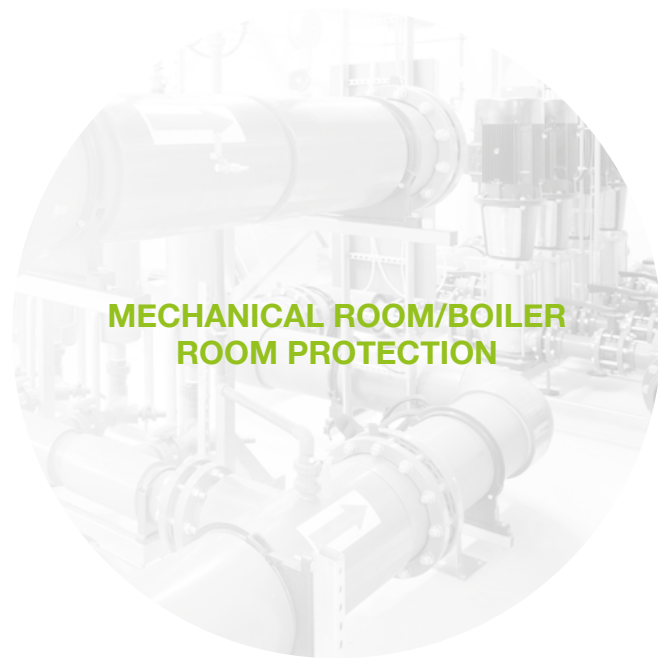


### FLUSH MOUNTING

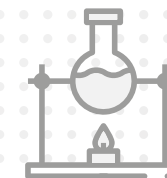
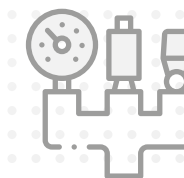
The AGSMK Flush Mount bracket is similar to an electrical rough in box. It allows for the electrical conduit to be brought to a space in the wall prior to the installation of the Merlin Control Panel.



Customize your needs  
for any environment



SCAN WITH YOUR SMART PHONE  
TO VIEW OUR FULL BOILER  
ROOM RANGE ONLINE



For our full range of products & services visit us at

[WWW.AMERICANGASSAFETY.COM](http://WWW.AMERICANGASSAFETY.COM)

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